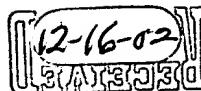


Calderbank 19-6-42



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IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

Patent Application

Inventor(s)	Arthur Robert Calderbank Ayman Naguib Nambirajan Seshadri	Case Name	Calderbank 19-6-42
Filing Date	4/28/1999	Serial No.	09/300,494
Examiner	Chieh M Fan	Group Art Unit	2634
Title	Combined Channel Coding and Space-Time Block Coding in a Multi-Antenna Arrangement		

ASSISTANT COMMISSIONER FOR PATENTS

WASHINGTON, D.C. 20231

SIR:

AMENDMENT

In response to an Office action dated September 16, 2002 please amend the above-identified application as follows:

IN THE SPECIFICATION:

Please replace the paragraph at line 2 of page 10 with the following: —

E 1
 When β_1 is set to 1, we get the following minimization criterion from equation (21)

IN THE CLAIMS:

E 2
3. (Amended) A transmitter comprising:
 a demultiplexer responsive to an applied input signal for developing a plurality of at least two signal streams, and
 a like plurality of channel coding/space-time coding transmitters, each responsive to a different signal stream of said plurality of signal streams, and each carrying out channel coding followed by space-time coding.

4. (Amended) The transmitter of claim 3 where each of said channel coding/space-time coding transmitters comprises:

a channel coder of rate R_s ,

**LAW OFFICE OF
HENRY T. BRENDZEL**

		Date: December 16, 2002
To:	Examiner: Chieh M Fan	From: Henry T. Brendzel, Esq
Fax:	703-872-9314	Fax: (973) 467-6589
Phone:	703-305-0198	Phone: (973) 467-2025
Re:	Serial No: 09/300,494	Pages: Cover + 9

Henry Brendzel

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

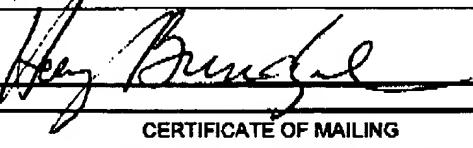
Complete if Known	
Application Number	09/300,494
Filing Date	4/28/1999
First Named Inventor	Arthur Robert Calderbank
Examiner Name	Chieh M Fan
Group/Art Unit	2634
Total number of pages in this Submission: this page, plus	8
Attorney Docket ID	Calderbank 19-6-42

8

ENCLOSURES (check all that apply)

- | | | |
|---|--|---|
| <input type="checkbox"/> Fee Form (<input type="checkbox"/> Check included) | <input type="checkbox"/> Assignment Papers (for an Application) | <input type="checkbox"/> Postcard(s) |
| <input checked="" type="checkbox"/> Fee Form not included, but should a fee be due, the Commissioner is Authorized to charge Deposit Account No 500732 of Henry T. Brendzel | <input type="checkbox"/> Drawing(s) | <input type="checkbox"/> Small Entity Statement |
| <input checked="" type="checkbox"/> Amendment/Response
<input type="checkbox"/> After Final | <input type="checkbox"/> Licensing-related Papers | <input type="checkbox"/> Request for a Refund |
| <input type="checkbox"/> Affidavit(s)/Declaration(s) | <input type="checkbox"/> Petition Routing Slip (TO/SB/69) and Accompanying Petition | <input type="checkbox"/> After Allowance Communication to group |
| <input type="checkbox"/> Extension of Time Request | <input type="checkbox"/> To Convert a Provisional Application | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences |
| <input type="checkbox"/> Information Disclosure Statement | <input type="checkbox"/> Power of Attorney, Revocation or Change of Correspondence Address | <input type="checkbox"/> Appeal Communications to Group (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> Certified Copy of Priority document(s) | <input type="checkbox"/> Express Abandonment | <input type="checkbox"/> Proprietary Information |
| <input type="checkbox"/> Response to Missing Parts/Incomplete Application
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.2 or 1.53 | <input type="checkbox"/> Terminal Disclaimer | <input type="checkbox"/> Status Letter |
| <input type="checkbox"/> Declaration (no Missing Parts Notice) | <input type="checkbox"/> To Convert to Statutory Invention Registration | <input type="checkbox"/> Other |

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual Name	Henry T. Brendzel	
Signature		Date 12/16/02

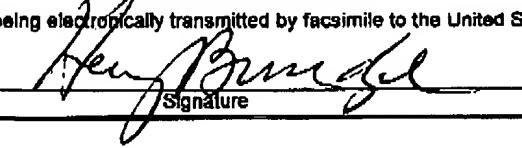
CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Assistant Commissioner for Patents, PO Box 2327, Arlington, VA 22202 on this date: _____

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CERTIFICATE OF FACSIMILE

I hereby certify that this correspondence is being electronically transmitted by facsimile to the United States Patent Office:

Henry Brendzel _____  12/16/02
Name of Person Signing _____ Signature _____ Date _____